

ELECTION OF OFFICERS CLOSES RADIO CONVENTION HERE

600 DELEGATES ATTEND BANQUET AT LAST SESSION

Several Addresses Are Made at Rectifier Meeting.

The third annual convention of the Third and Fourth District Radio Clubs, held at the Raleigh Hotel, closed last night with a banquet. Officers were elected.

The Third Radio district elected: President, E. R. Bateman, Baltimore; vice president, H. H. Lyon, Washington; secretary, H. A. Snow, Washington. It was voted that the next convention be held in Baltimore.

The American Radio Relay League elected the following: Hiram Percy Maxim, Hartford, Conn., president; C. H. Stewart, St. David, Pa., vice president; A. A. Herbert, Nutley, N. J., treasurer; K. B. Warner, Hartford, Conn., secretary; F. H. Schnell, Hartford, Conn., traffic manager. The directors are: N. B. West, Waukegan, Ill.; H. M. Anthony, Muncie, Ind.; H. A. Beale, Jr., Parkersburg, Pa.; A. E. Bessey, Sunbury, Pa.; V. F. Camp, New York City; F. M. Corlett, Dallas, Tex.; C. E. Darr, Detroit, Mich.; W. C. C. Duncan, Toronto, Canada; D. A. E. Kennelly, Cambridge, Mass.; S. Kruse, Cambridge, Mass., and F. A. Hill, Savannah, Ga.

About 600 delegates attended the banquet and election.

Delegates Tour City.

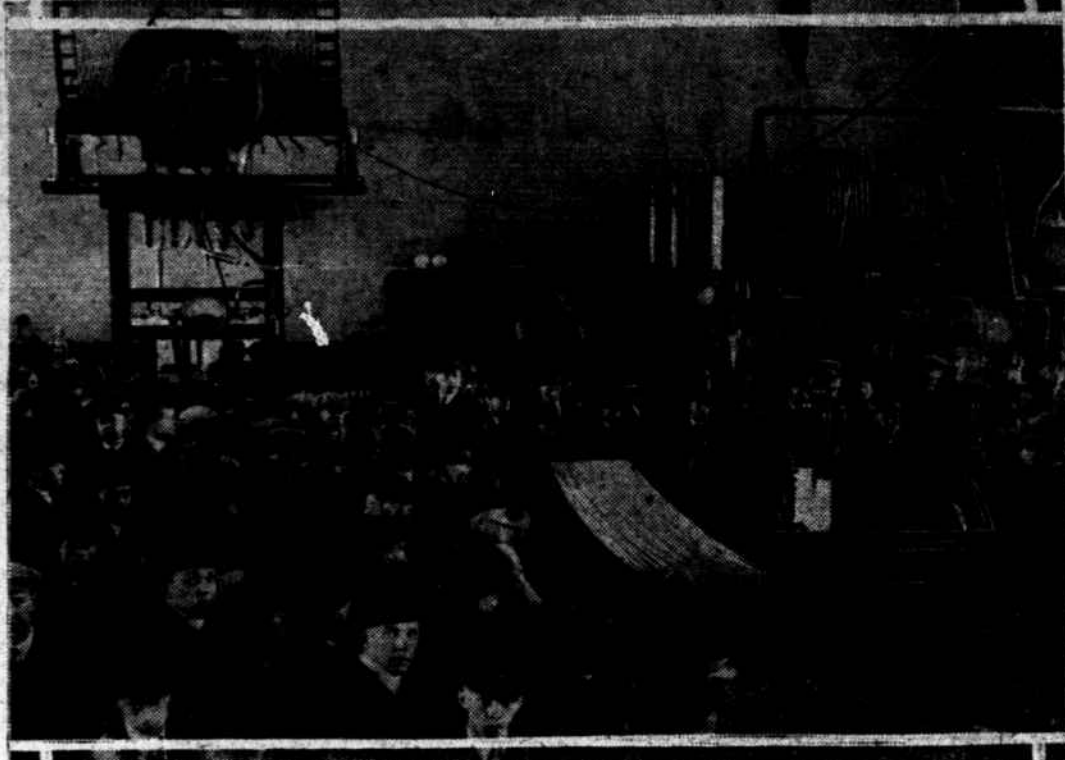
The morning session opened at 9 o'clock when the delegates in buses toured the city and the nearby radio broadcasting stations.

At 2 o'clock the delegates attended the rectifier meeting in the banquet hall and were addressed by President S. Kruse, who spoke of chemical rectifiers. W. R. G. Baker, General Electric Company, of Pittsburgh, took as his subject "The Rectifier." Howard Tyzzer, American Radio and Research Corporation, gave an elaborate portrayal of "The S. Tube Rectifier." Dr. F. B. Silsbee, Bureau of Standards, spoke on "Power Factor in Radio Circuits," and J. L. Preston, also of the Bureau of Standards, discussed "Insulating Materials for Radio Use."

Extraneous Noises Nullified.

In the afternoon there were many demonstrations of the advance made in the perfection of radio apparatus and accessories. The new "S" tube

Visitors Inspect Arlington Radio Station



Radio enthusiasts attending the third annual convention of the Third and Fourth District Radio Clubs yesterday visited the Arlington Radio Station and saw the operator flash the time to ships at sea. The apparatus at the government station was later inspected by persons attending the convention, which adjourned last night after a two-day session.

was a feature that attracted considerable attention. This apparatus is a sort of "dark bulb" which, when used, nullifies all foreign sounds and buzzing, clarifying the reproduction of the broadcast. The trouble, heretofore, has been the annoyance encountered often in receiving messages and having their import garbled because of the buzzing noises.

The radio frequency amplifier was given another demonstration in a room on the sixth floor of the hotel. This little suitcase instrument, with no aerials attached, listened in on many "air" conversations, and one heard with perfect ease and clarity.

Harding to Get Messages.

The Philadelphia Amateur Radio Association had a large delegation present, headed by its acting president, John E. Delp, Jr.

It was announced that the President-Governors' relay will be held throughout the country, March 6, 7 and 8. These three days will see the governors of each State sending, through the amateur operators in their respective States, messages to President Harding, who has a receiving set.

Broadcasting Programs and Station Wave Lengths

N A A.—Naval Radio Station, Arlington.
10:30 a. m. Meteorological report on 550 meters of arc transmitter.
12:00 p. m. Time signal, weather report, ship orders.
10:00 p. m. Time signal, weather report, ship orders.
10:30 p. m. Naval press news.
Wave length 2650 meters. Broadcasting daily. This station has recently installed a radiophone equipment.
W W X.—Post Office Department Station.
10:00 a. m. Radiophone weather report.
10:30 a. m. Radiophone marketgram.
12:30 p. m. C. W. telegraph marketgram.
2:15 p. m. C. W. telegraph marketgram.
3:30 p. m. C. W. telegraph marketgram.
5:00 p. m. C. W. telegraph marketgram.
7:30 p. m. Radiophone marketgram.
8:00 p. m. Radiophone.
9:30 p. m. Radiophone weather report.
Wave lengths used: Radiophone 1160 meters; C. W. telegraph 1980 meters. Broadcasting daily.
N O F.—Naval Air Station, Anacostia.
Tuesday, 4:00 to 4:30. Public health lecture on 1100 meters.
Wednesday, 8:30 to 9:30 p. m. Musical program, public health lecture and lecture on naval radio.
Friday, 8:30 to 9:30 p. m. Musical program, public health lecture and lecture on naval radio.
Church of Covenant, Eighteenth and N streets northwest.
11:00 a. m. Sunday sermon and choir. 8:00 p. m. Sermon and choir. Wave length, 360 meters.
W J H.—White & Boyer, 312 Thirteenth street northwest.
Tuesday and Friday evenings, 7:30 to 9:00 p. m. Short stories and musical selections. Wave length, 360 meters.
3 Y N.—National Radio Institute, 1345 Pennsylvania avenue northwest.
6:30 to 7:30 daily on 360 meter. Code instruction, ten minutes sending at 8:12-18 words per minute. Lecture on radio.
W J Z.—Westinghouse Electric & Mfg. Co., Newark, N. J.
News and concert every evening at 8:00. Children's hour every Friday at 7:00 p. m. Wave length, 360 meters.
X E.—American Radio and Research Corp., Medford, Hillside, Mass.
News, concert and music every week day evening, with sermons every Sunday. Wave length, 350 meters.
W Q B.—C. D. Tuska Company, Hartford, Conn.
Concerts on Tuesday, Thursday and Saturday evenings. Wave length, 435 meters.
K D K A.—Pittsburgh, Pa., Westinghouse Electric & Mfg. Co.
Washington Observatory time broadcast daily at 8:00 p. m. Government market and New York stock reports at 8:05 p. m. Special musical program 8:30 to 9:30 p. m. Organ recital every Sunday at 4 p. m.

AERIAL REQUIRES GOOD INSULATION

Here are some hints for radio beginners:

1. First determine where you are going to place your aerial wire. Get as much of it as you can in a horizontal position relative to the ground. If possible have it in the shape of an inverted letter "L" with the free end pointing away from the broadcasting station. Have the end which goes into your house pointing toward the broadcasting station. This is important. See the aerial is well insulated; No. 14 bare copper wire, single strand, will do, but seven stranded phosphor-bronze or copper wire is better. In case it is necessary to make any joints in the aerial wire see they are soldered. Aerial should be thirty feet above the ground and at least 150 feet long.

2. Next make your ground connection. A good ground is imperative. In city homes this is best obtained by soldering a wire to your water pipe system or to the steam heat radiator. If these are not available (in country homes) bury a sheet of copper plate twelve feet square in moist earth.

3. There is no danger from lightning in wireless sets properly grounded, but it is best to get a single pole double throw switch and connect it up so that the aerial can be grounded when the receiving set is not being used.

4. In making electric connections between different parts of your apparatus use ordinary lamp cord No. 18 B and S gauge. See that all your connections are tightly made.

NEWARK TONIGHT BROADCASTS PLAY

"A laugh, a side-splitting laugh," says an observer, "is in store for hundreds of thousands of radio enthusiasts who will listen to Ed Wynne's presentation of the 'Perfect Fool' through the medium of the radio telephone this evening when this musical riot will be broadcasted from Newark, N. J., by WJZ under the auspices of the New York Globe."

This play, "wholesome, original and humorous," will be broadcasted in its entirety. The ditty patter of the dainty feet of the Mayako sisters, Florence and Esther, will be recorded with the Japanese melodies played by their brother, George. The rattle-bang of a close dance will go splitting through the air at the rate of 186,000 miles a second.

"Turn Knob and Listen."

Wireless is not a black art! There is no mystery about it. It is as simple as A. B. C. Operating a small radio receiver is just like focusing a camera or playing the phonograph. There are no accurate or painstaking adjustments to be made, no fuss, no bother. "Turn the knob and listen"—that is all there is to it. No expensive installing to do. The thrill that radio brings can be experienced by anyone.—Radio News.

SO MANY WISH TO KNOW MORE ABOUT RADIO APPARATUS

The Sending and Receiving SETS

Wireless Apparatus Will Soon Be Heard Throughout the WHOLE WORLD

You want to be ready to receive your share of the world's news. Concerts from all parts of the country will be reproduced by Radio. Concerts can be heard at our store every Wednesday evening from 7:30 to 10.

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President Joins Radio Listeners

New Apparatus in White House Adds Notable Enthusiast.

President Harding is interested in a new hobby. It is radio. Heretofore the President said he had no time for radio, but the temptation has been too strong. He consented to allow the navy to install a receiving set at the White House. With the machine in operation, President Harding can while away part of his spare time in hearing the messages sent by the vast army of amateur radio operators throughout the country.

Today's Detailed Broadcast Program

WASHINGTON.
Church of the Covenant, Connecticut Avenue and W street.
11 a. m.—Morning service. Sermon by Rev. Charles Wood, D. D., minister.
8 p. m.—Evening service. Sermon by Dr. Wood. Subject: "Messages from Books, Sacred and Secular." 2. Concerning conquests: Joshua, Napoleon and Washington." Evening choir of 400 voices.
KDKA—Pittsburgh.
10:45 a. m.—Services of the First Presbyterian Church, Pittsburgh, Pa. Dr. Maitland Alexander, minister.
3 p. m.—Radio Chapel at Station KDKA, conducted by Rev. F. R. Elder, pastor of the First United Presbyterian Church of Wilkes-Barre, Pa.
7:30 p. m.—Services of the Calvary Episcopal Church, Pittsburgh, Pa. Rev. E. J. Van Etten, rector.
WJZ—NEWARK.
3 p. m.—Radio Chapel Services. Sermon by Rev. Clarence H. Wilson, D. D. Music by the choir, Congregational Church, Glen Ridge, N. J.
4 p. m.—"Boys of the World," an address by C. H. Scott, State secretary of boys' work. Y. M. C. A. Newark. N. J. Music by quartet.
8 p. m.—Program of classical music.
7 p. m.—Sacred music recital by the Aeolian orchestra.
7:15 p. m.—"Scenario Writing" by A. A. Lewis, author of "The Perfect Fool," now playing at George M. Cohan's Theater, New York.

GERMAN BRIDES MUST BE COOKS

Licenses Refused by Neu-Ulm Mayor if Applicants Don't Know.

NEU-ULM, Germany, Feb. 18.—Cooking is more than a fine art in this town. If Mayor Rummel, in fact, has his way it will be placed on a pedestal as an essential before two hearts can beat as one and may, if he continues on his course, lay the foundation for a new theory of mating that will replace eugenics.

Mayor Rummel, moved by what sad experience no one knows but every one suspects, has issued a call to all the girls and women of this town to learn how to cook. "I warn you," thunders the mayor, "that I shall refuse a marriage license to every woman who cannot cook."

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LOW-PRICED RADIO SET BIG PROBLEM

Three problems stand in the way of radio becoming a universal method of receiving news, addresses, weather reports, concerts, political news, etc.

The first is the perfection of an extremely low-priced, wide-range receiving set that anyone can operate.

The second is the elimination of static disturbances that produce buzzing confusion in the receiver.

The third is the solution of the mystery of "pockets." These are inexplicable spots, such as Saratoga, N. Y., where messages, audible all around, cannot be heard.

A fortune is waiting for the man who helps solve these problems. Every radiograph expert says that eventually they will be solved.—Popular Science.

WIRELESS MAKES VAST HEADWAY IN TEN YEARS

Hundreds of Amateurs Aid Development Says Local Club Head.

The Herald has procured the cooperation of H. H. Lyon, president of the Washington Radio Club, in editing its weekly radio page which begins publication today. Mr. Lyon also will supervise the daily radio column which in future will be a feature of The Herald. Years of study of radio problems and practical application of his knowledge in the service of the United States navy particularly fitted Mr. Lyon to deal with the radio problems which will be discussed on this page from time to time.

By H. H. LYON, President of the Washington Radio Club.

Radio, or wireless communication, has made tremendous strides in the past few years, especially so that branch of the art which deals with telephony without wires. During the past decade many hundreds of amateur enthusiasts have been intensely interested and have contributed to a very considerable extent to the development of the transmission of speech as well as telegraphic signals. From the ranks of these amateurs have come a number of inventions and improvements.

On Firm Foundation.

It remained, however, for the commercial engineers and manufacturers to place the radio telephone upon a firm and broad foundation. This has been done by the establishment of a number of powerful radiophone broadcasting stations in various centers of the United States. These stations transmit music, sermons and news broadcast so that one owning a receiving station can tune in on them and receive concerts, crop reports, weather reports and a resume of the day's news. The range of these stations is such that no part of the country is too remote to be kept in touch with the events of the day.

It is no longer necessary to spend months and even years in becoming proficient in the use of the telegraph codes in order to tune in on the radio happenings of today, and it is for this reason that a very large number of business and professional men are taking up radio as a diversion or hobby. The radiophone has removed the great stumbling-block, the codes, and people in almost every walk of life are becoming owners and operators of receiving stations.

Herald Page for Radio.

Cognizant of the ever-increasing popularity of the radio art, The Herald has established a radio section page in its Sunday morning issues. In this section of The Herald will be found each Sunday up-to-date news and information on radio, schedules of broadcasting stations, and items of interest to those engaged in radio. A question box will be conducted, and those who have problems to solve may have their queries answered by submitting them to the Radio Editor, Washington Herald. Only questions of general interest will be published; others will be answered by mail, provided a self-addressed envelope is inclosed.

The Washington Radio Club will have at its disposal two columns of this page for the publication of its activities, meeting notices, special articles, etc. In addition, the week-day issues will carry news articles concerning this fascinating subject.

N. A. Gymnasts Win.

ANAPOLIS, Md., Feb. 18.—In their initial gymnastic match of the season, the Midshipmen won from the University of Pennsylvania here this afternoon 45 to 8, winning first in all events except the club swinging. The work of Nold and Taylor on the rings, Pearson on the horse and Cory on the horizontal bar was particularly fine.

HIGH SCHOOL CLUB PLANS NEW OUT

The Radio Club of Central High School hopes to have its new set installed and in operation by March 1. The receiver will

consist of three units, the honeycomb tuner capable of tuning wave-lengths from 150 to 25,000 meters; the shore-wave regenerative receiver for amateur wave-lengths from 150 to 750 meters; and the detector and two-step amplifier. The officers of the club and the advisory committee will design and build the set.

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Who Enroll for Our One Month Citizens Course

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Remember, we give you this set absolutely free when you complete the thirty days' training in our DAY OR EVENING CLASSES

This remarkable offer open to only 100 readers of The Herald. Be sure and call early at our office for full and complete information about instructions, apparatus, books and magazines, and expert advice on all wireless questions.

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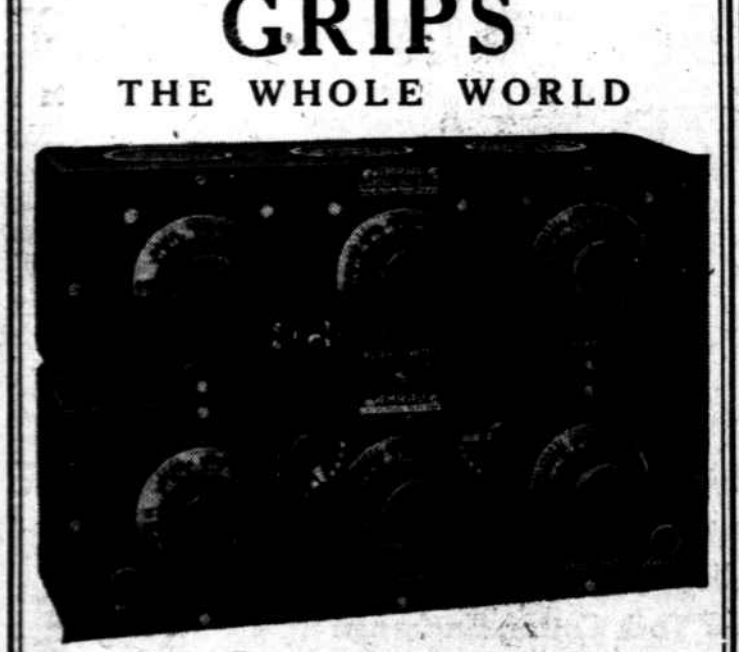
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